



Outline

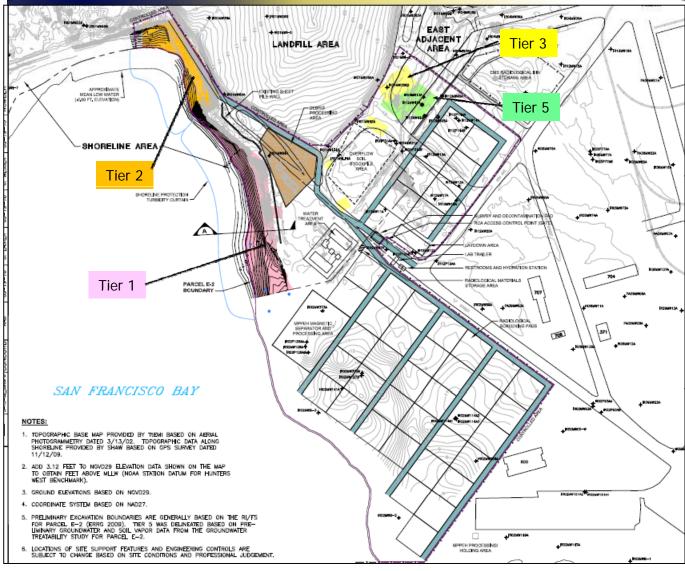


- Update on TCRA Progress
 - Tiers 3 & 5
 - Tier 2
 - Tier 1
 - MPPEH Acceptance Sampling
 - Radiological Confirmation Sample Results
 - Radiological Commodities
 - Suspect Asbestos Encounter
- What's Next
- Schedule



Site Layout Map

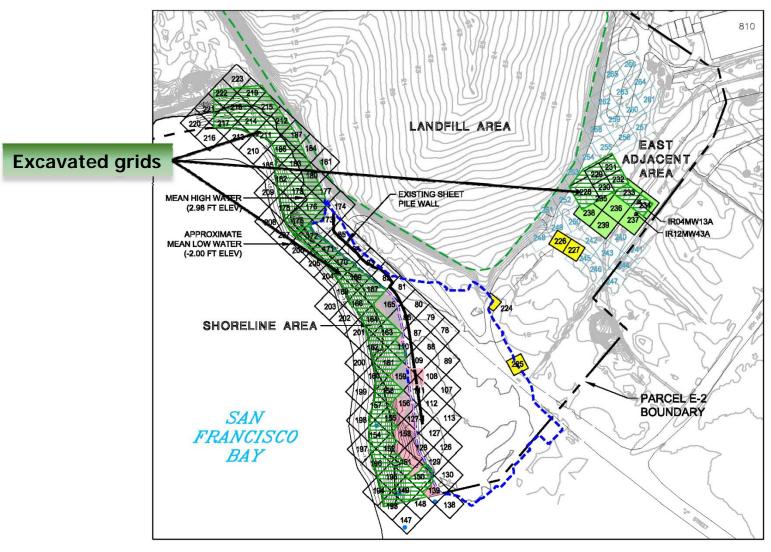






TCRA Progress – Completed Excavations







Update Tiers 3 and 5



- Commenced excavation in Tiers 3 and 5 (Upland Area) on August 30, 2010
- 100% of original Tier 3 grids excavated to depth (3-10 feet bgs) and confirmation sampled
- Over-excavated top 3 feet (vertically) in Tier 3, Grids
 231 and 232 for lead in May 2011
- Confirmation results show over-excavation required for lead and TPH
- Final conditions survey commenced July 19



Update Tiers 3 and 5 (continued)



	Over-excavations in Tier 3							
Tier	Grid	Depth (ft)	Pb Conc (mg/kg) (PAL=19,700)	TPH Conc (mg/kg) (PAL=3,500)	Comment			
SIDEW	ALL GRII	DS						
3	231	2	23,000	6,000	To be addressed in August			
3	253	3.6	19,700	Not exceeded	Over-excavated and removed Resampled at same depth and new sample below all PALs (Pb = 960 ppm)			

- Over-excavated Grid 253 (3 ft towards the landfill and 25 ft on each side of the sidewall sample location) based on direction received during June BCT site walk
 - Sidewall confirmation sample recollected at same depth
 - Result is significantly below the lead PAL
- Grid 231 will be addressed in August
- Tier 5 grids No over-excavation required to date



Update Tiers 3 and 5 (continued)





Tiers 3 and 5 Looking East – June 8, 2011



Update Tier 2



- Commenced excavation of Tier 2 on October 19, 2010
- Stopped excavation activities in December 2010 through mid-April 2011
- 100% of grids excavated, sampled, and backfilled with clean sand
- Over-excavation was required in six grids
- Over-excavations completed with the exception of Grid 177 sidewall
- Construction access road currently prevents overexcavation of Grid 177 sidewall - will be overexcavated after geotechnical investigation





Over-Excavations for PCBs					
Tier	Grid	Depth (ft)	PCBs (mg/kg)	Comment	
BOTTOM	OVER-EXCAVA	TIONS			
2	176	4.7	8.2	Over-excavated to 10 ft bgs Below all PALs at 10 ft bgs	
2	179	5.5	23.0	Over-excavated to 10 ft bgs Below all PALs at 10 ft bgs	
2	185	3.6	20.7	Over-excavated to 10 ft bgs Below all PALs at 10 ft bgs	
2	209	4.3	133	Over-excavated to 10 ft bgs PCB PAL exceeded at 10 ft bgs and will remain in place	

Soil/Sediment PALs = 7.4/1.8 mg/kg







Over-Excavations for Metals						
Tier	Grid	Depth (ft)	Cu (mg/kg)	Pb (mg/kg)	Comment	
SIDEWALL OVER-EXCAVATIONS						
2	177	3.8	12,000	Not Exceeded	Over-excavated Resampled and Cu PAL is exceeded (5,800 ppm at 3.1 ft bgs). To be removed at a later date, access road currently prevents over-excavation	
2	183	3.4	11,000	2,100	Over-excavated into Grids 180 & 184 Grid 180 SW is below all PALs PALs exceeded in Grid 184, will remain	
		4.7	5,700	Not Exceeded	in place due to proximity to landfill	

Metal concentrations below the Project Action Limits are not listed in this table Copper Soil/Sediment PALs = 4,700/2,700 mg/kg Lead Soil/Sediment PALs = 1,970/2,180 mg/kg





Remaining Contamination in Tier 2							
Tier	Grid	Depth (ft)	PCBs (mg/kg)	TPH (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Comment
BOTT	OM SAM	PLES					
2	177	15.0	48.1	NE	NE	NE	Below 10 ft bgs
2	182	4.3	8.1	NE	NE	NE	In Parcel F
2	209	10.1	9.8	NE	NE	NE	Below 10 ft bgs
SIDEV	VALL SA	MPLES					
2	182	2.8	3.4	NE	NE	NE	Parcel F boundary
2	184	3.4	22	NE	NE	NE	Proximity to landfill
		7.5	116	6,521	4,500	38,000	Proximity to landfill
2	186	3.1	8.8	NE	NE	NE	Parcel F boundary
2	211	2.2	3.2	NE	NE	NE	Parcel F boundary
2	214	3.0	4.7	NE	NE	NE	Parcel F boundary

Soil/Sediment PALs:

PCBs = 7.4/1.8 mg/kg; TPH = 3,500/3,500 mg/kg; Cu = 4,700/2,700 mg/kg; Pb = 1,970/2,180 mg/kg



Update Tier 1



- Commenced excavation of Tier 1 on May 11, 2011
- Approximately 51% of grids excavated, sampled, and backfilled
- Received 92% of collected confirmation sample results, remaining are pending
- Currently, two grids require over-excavation



View of Tier 1, looking northwest





	Over-Excavations for PCBs					
Tier	Grid	Depth (ft)	PCBs (mg/kg)	Comment		
вотто	M OVER-EXC	AVATIONS				
1	170	4	10.8	To be over-excavated		
1	198	3	7.2	To be over-excavated		

Soil/Sediment PALs = 7.4/1.8 mg/kg





Remaining Contamination at Tier 1 Boundary Jer Grid Depth TPH Comment (mg/kg)

Hei	Griu	(ft)	(mg/kg)	Comment
BOTTOM	1 GRIDS			
1	148	11.0	5,416	Below 10 ft bgs
1	149	14.3	4,529	Below 10 ft bgs

Soil/Sediment PALs:

TPH = 3,500/3,500 mg/kg





Remaining Contamination at Tier 1 Boundary

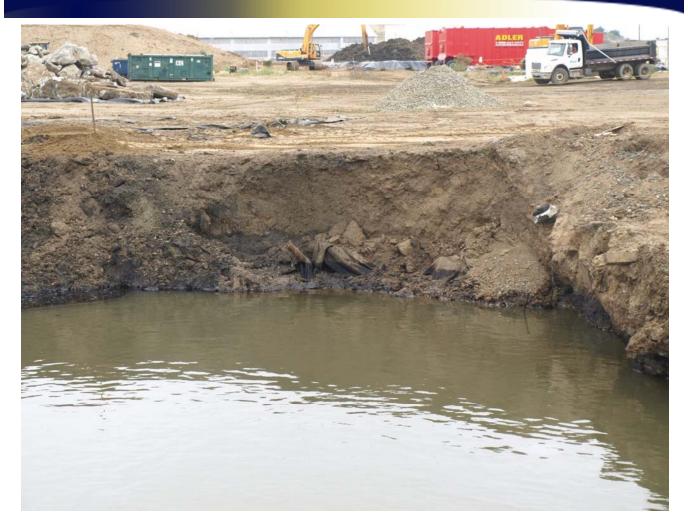
		9			
Tier	Grid	Depth (ft)	PCBs (mg/kg)	TPH (mg/kg)	Comment
SIDEWA	ALL GRIDS				
1	139	1.7	53.0	NE	Parcel E/E-2 boundary
1	148	2.5	10.0	NE	Parcel E/E-2 boundary
		5.7	NE	3,600	Parcel E/E-2 boundary
1	149	2.8	9.3	NE	Parcel E/E-2 boundary
		7.6	NE	14,904	Parcel E/E-2 boundary
1	160	1.9	4.7	NE	Parcel F boundary
		3.2	9.8	NE	Parcel F boundary
1	193	1.9	2.0	NE	Parcel E/E-2 boundary
		4.2	14.0	NE	Parcel E/E-2 boundary
1	194	2.7	5.8	NE	Parcel E/E-2 boundary
1	198	2.5	3.5	NE	Parcel F boundary

Soil/Sediment PALs: PCBs = 7.4/1.8 mg/kg; TPH = 3,500/3,500 mg/kg

NE – not exceeded







Geofabric from first TCRA visible in sidewall of Grid 150 – July 13, 2011







Removing cables from Grid 150 - July 6, 2011







View of Tier 1 from Tier 2 – July 13, 2011







Shoreline and drying cells located in areas to be excavated – July 13, 2011



Confirmation Sample Results Exceeding Radiological Release Criteria



Grid 154 (Tier 1)	Sr-90 (pCi/g)	Ra-226 (pCi/g)	Cs-137 (pCi/g)
G154-B-4	Data pending	4.335E-01	1.085E-02
G154-SW-4	<mark>0.449</mark>	7.591E-01	1.492E-04

Grid 154 (Tier 1, Sheet 3): Sidewall facing Parcel F exceeds radiological release criteria. Project action limits (PALs) for chemical analytes have been met. Currently no further action planned.

Grid 198 (Tier 1)	Sr-90 (pCi/g)	Ra-226 (pCi/g)	Cs-137 (pCi/g)
G198-B-3	<mark>0.519</mark>	6.078E-01	1.739E-02
G198-SW-2	0.256	4.487E-01	1.146E-02

Grid 198 (Tier 1, Sheet 3): Bottom exceeds PALs for PCB and will be over-excavated.

Grid 204 (Tier 1)	Sr-90 (pCi/g)	Ra-226 (pCi/g)	Cs-137 (pCi/g)
G204-B-3	<mark>0.390</mark>	1.120	-2.739E-03
G204-SW-3	-0.0418	1.175	6.031E-04

Grid 204 (Tier 1, Sheet 1): Bottom exceeds radiological release criteria. Project action limits (PALs) for chemical analytes have been met. Currently no further action planned.

Grid 217 (Tier 2)	Sr-90 (pCi/g)	Ra-226 (pCi/g)	Cs-137 (pCi/g)
G217-B-3	0.0119	<mark>1.7307</mark>	4.7923E-02
G217-SW-1.5	-0.0574	7.8774E-01	-7.6456E-03
G217-SW-3	<mark>1.04</mark>	5.356E-01	-5.169E-03

Grid 217 (Tier 2, Sheet 1): Bottom and sidewall facing Parcel F exceed radiological release criteria. Project action limits (PALs) for chemical analytes have been met. Currently no further action planned.



Radiological Commodities



Origin	Origin Item Inventory		Dose Rate@ 1"
	Number		(uR/hr)
Grid 233/232	HPS-COM-001	Metal Disc	800
Grid 228	HPS-COM-002	Cooper Tube	600
Grid 235	HPS-COM-003	Metal Nugget	200
RSY B6	HPS-COM-004	Metal Disc	1,400
RSY C1	HPS-COM-005	Metal Disc	1,000
RSY C3	HPS-COM-006	Rock	800
RSY E8	HPS-COM-007	Rock	100
RSY D2	HPS-COM-008	Soil	240
RSY C4	HPS-COM-009	Metal Plate	460
RSY E8	HPS-COM-010	Hydraulic Fluid	1,200
		Container	
RSY B4	HPS-COM-011	Rock	230
RSY B3	HPS-COM-012	Radioluminescent Disk	160
RSY C6	HPS-COM-013	Radioluminescent Disk	2,000
RSY E3	HPS-COM-014	Rock	470
RSY E3	HPS-COM-015	Rock	500
RSY C4	HPS-COM-016	Metal Strip	600
RSY C4	HPS-COM-017	Metal Strip	800
RSY C4	HPS-COM-018	Rock	30



Radiological Commodities - Photos







HPS-COM-016, Metal Strip

HPS-COM-017, Metal Strip



Radiological Commodities - Photos





Radiological Commodity



MPPEH Acceptance Sampling



- Began implementing Acceptance Sampling procedures on July 5, 2011
- Devised a GPS-based investigation process for locating 3-foot x 3-foot grid cells
- 12 MDAS items encountered
- No MEC to date

MPPEH Clearance Pad Status	
Action	Status (As of July 19)
MPPEH Screening by Acceptance Sampling Complete	6 Pads (approx 1,200 cy)
MPPEH QC Complete	3 Pads (approx 600 cy)
MPPEH QA Complete	2 Pads (approx 400 cy)



MPPEH Acceptance Sampling (Continued)





Pad with flagged 3-foot x 3-foot grid cells – July 13, 2011



Suspect Asbestos (Waste) Encounter



- Two bags marked asbestos with asbestos-looking material were encountered in Tier 1, grid 161 (quadrant B), at approximately 5 ft bgs
- Area was sprayed down to wet the bags and surrounding soil, then remotely loaded in a double-lined LLRW roll-off bin
- Two samples were collected
- Asbestos <u>not detected</u>







Large Debris Processed and Stockpiled











Hunters Point Naval Shipyard BCT Meeting – July 28, 2011



Update



- Filled 112 roll-off bins with LLRW
- Transferred approximately 5,500 cubic yards of non-LLRW to ITSI for offsite disposal
- Used water from frac tank#1 for dust control
- Frac tank#1 demobilized
- Continued erosion control and fence line inspections
- Continued collecting water samples outside of turbidity curtain
- Continued air monitoring





What's Next



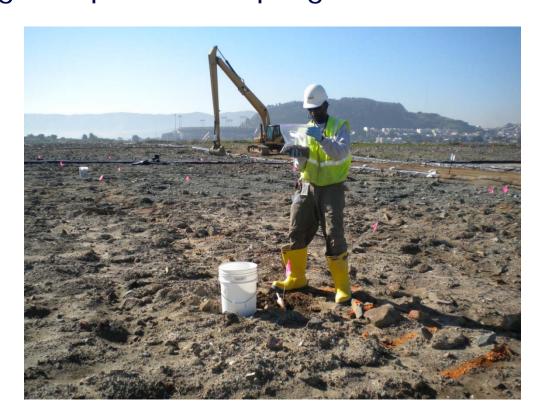
Continue offsite T&D

Continue implementing Acceptance Sampling for MPPEH

clearance

 Continue excavations and over-excavations

- Complete final conditions survey of Tier 3 and upland backfill
- Re-commence Tier 5 excavation





Schedule



Activity	Date
Continue Hot Spots Excavation and Soil Screening; Extended MPPEH schedule	July – December 2011
Implement Acceptance Sampling Procedures	July – December 2011
Continue Backfill and Site Restoration	July 2011 January 2012
Demobilize	January 2012
Submit Draft Removal Action Completion Report	March 2012